

DRILL HOLES

BORDER REV# DATE: June 11, 2004

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PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new mast arm Pedestrian Signal with Interconnect at the Intersection of MD 528 (Coastal Hwy) and 49th Street in Worcester County. This signal shall be interconnected to and powered by the existing signal at MD 528 (Coastal Hwy) and 48th Street. These two Signals shall operate in tandem. MD 528 (Coastal Hwy) is assumed to run a north-south direction.

II. INTERSECTION OPERATION

MD 528 / 48th Street

1. The intersection shall continue to operate in a NEMA six-phase, semi-actuated mode, with the MD 528 (Coastal Hwy) approaches running concurrently. Exclusive/Permissive left turn phases shall remain in operation for both approaches of MD 528 (Coastal Hwy). The pedestrian phases with pushbutton actuation across the legs of MD 528 (Coastal Hwy) shall remain in operation. The 48th Street approaches shall continue to run concurrently.

MD 528 / 49th Street

1. The intersection shall operate in conjunction with MD 528 / 48th Street. The MD 528 (Coastal Hwy) approaches shall run concurrently. A pedestrian phase with pushbutton actuation across the north leg of MD 528 (Coastal Hwy) shall be provided. The 49th Street approaches shall be "STOP" sign controlled and operate as a right in right out side street.
2. The existing full-traffic-actuated, eight-phase controller with all necessary equipment housed in a NEMA size "6" base-mounted cabinet located at 48th Street shall be utilized by both intersections.

III. SPECIAL NOTES

1. The Contractor shall be responsible for terminating all signal cables, excluding interconnect, to the appropriate terminals and shall properly label each cable.
2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A..

ITEM NO.	DESCRIPTION	QUANTITY
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	14.5 SF
	D3-2 "49TH Street (arrow)" sign, (variable x 16")	1 EA
	R3-2 "NO LEFT TURN (SYMBOLIC)" sign, (30" x 30")	1 EA

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2001	Class 2 Excavation.	28 C.Y.
2002	Test Pit Excavation	4 C.Y.
5003	Remove existing pavement markings - any width.	40 L.F.
5005	12" white heat applied permanent preformed thermoplastic pavement marking.	415 L.F.
5006	24" white heat applied permanent preformed thermoplastic pavement marking.	140 L.F.
6001	Furnish and install depressed curb and gutter.	155 L.F.
6002	Standard type A combination curb and gutter 12" gutter pan 8" depth.	40 L.F.
6004	4" concrete sidewalk.	260 S.F.
8001	Furnish and install concrete for signal foundation.	8 C.Y.
8020	Furnish and install breakaway pedestal pole (10').	2 EA
8029	Detectable warning system (truncated domes).	32 SF
8030	Remove and replace decorative brick sidewalk (depressed brick median).	280 S.F.
8033	Furnish and install No. 6 AWG stranded bare copper ground wire.	1630 L.F.
8039	Furnish and install 4" schedule 80 rigid polyvinyl chloride conduit - bored.	380 L.F.
8041	Furnish and install 3" schedule 80 rigid polyvinyl chloride - trenched.	85 L.F.
8042	Furnish and install 4" schedule 80 rigid polyvinyl chloride - trenched.	15 L.F.
8054	Furnish and install electrical handhole.	4 EA
8057	Install overhead sign.	14.5 S.F.
8064	Furnish and install 27' mast arm pole and 50 (cut to 40') mast arm.	1 EA
8064	Furnish and install 27' mast arm pole and 50' mast arm.	1 EA
8076	Furnish and install ground rod -3/4" x 10'.	4 EA
8078	Furnish and install 12" vehicular traffic signal head section	12 EA
8081	Cut, clean, galvanize and cap traffic signal structure.	1 EA
8084	Furnish and install electrical cable - 2 conductor (No. 14 AWG).	900 L.F.
8086	Furnish and install electrical cable - 5 conductor (No. 14 AWG).	985 L.F.

EQUIPMENT LIST (CONT.)

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
8087	Furnish and install electrical cable - 7 conductor (No. 14 AWG).	815 L.F.
8091	Pedestrian pushbutton and R10-4(1) sign. (Note: Sign to read "PUSHBUTTON TO CROSS COASTAL HWY".)	2 EA
8099	Furnish and install 16" LED countdown pedestrian signal head	2 EA
Neg.	Saw cut in roadway.	50 L.F.
Neg.	Remove tree & relocate electrical sprinkler equipment.	LUMP SUM
Neg.	Furnish and install wood bollards (12"x12"). Call Cropper Bros Lumber Co. 410-835-8080. Price must include staining using Olympic, Navahoe Red (2-coats).	4 EA

C. EQUIPMENT TO BE REMOVED

All removed materials are to become property of the contractor.

The contact persons for District #1 are as follows:

Mr. Gene Cofelli
Assistant District Engineer - Traffic
Phone: (410) 677-4040

Mr. Jimmy Wright
Assistant District Engineer - Maintenance
Phone: (410) 543-6715

Mr. Bruce Poole
Assistant District Engineer - Utility
Phone: (410) 677-4082

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

The power company representative is:
Rodney Bain
Connectiv
2530 N. Salisbury Blvd
Salisbury, MD 21802
Phone: 410 860-6242

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

MD 528 (COASTAL HWY)
AND 48th / 49th STREETS

SCALE NONE DATE 3/16/05 CONTRACT NO. AT3555185

DESIGNED BY R ZACHERL COUNTY WORCESTER
DRAWN BY ROB CICCHINI LOGMILE 23052805.51
CHECKED BY TMS NO.: G917
F.A.P. NO.

DRAWING NO. 1859D g12 OF SHEET NO. 3 OF 3



STREET TRAFFIC STUDIES, LTD.
400 Crdn Hwy., NW
Gaithersburg, MD 20878

Ph (410) 580-5500
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PLOTTED: 08/24/2005
FILE: 08/24/2005

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